

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

Approved for use through January 31, 2007. GSA GEN. REG. NO. 27.

**U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 1 of 1

<i>Complete if Known</i>	
Application Number	10/685,453
Filing Date	October 16, 2003
First Named Inventor	David B. CHUNG
Art Unit	2871
Examiner Name	Hoan C. Nguyen
Attorney Docket Number	2207/16635

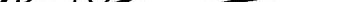
## **U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
<i>Ch</i>		US-6,774,399 B2	Aug. 10, 2004	Hirata	<del>1-10</del>
<i>Ch</i>		US-2004/0125272 A1	Jul. 1, 2004	Chung et al.	<del>1-10</del>

## **FOREIGN PATENT DOCUMENTS**

## **NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

Examiner Signature		Date Considered	8/23/05
--------------------	-------------------------------------------------------------------------------------	-----------------	---------

**'EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional).<sup>3</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 904.14. <sup>2</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file and/or process the application with the USPTO. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and sending the completed collection form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**Please type a plus sign (+) inside this box**

A circular stamp from the U.S. Patent and Trademark Office. The outer ring contains the text "U. S. PATENT & TRADEMARK OFFICE" at the top and "MAY 23 2005" at the bottom. The inner circle has "OIR 5" at the top and "SC139" at the bottom.

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

ent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

Sheet

of 1

<i>Complete If Known</i>	
Application Number	10/685,453
Filing Date	October 16, 2003
First Named Inventor	David B. CHUNG
Group Art Unit	2871
Examiner Name	Not assigned
Attorney Docket Number	2207/16635

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

## **OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

OTHER PRIORITY - NON-PAENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet 1 of 1

**FORM PTO-1449**

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT(S)**

Atty Docket No.: 2207/16635  
Serial No. : 10/685,453  
Applicants : David B. CHUNG  
Filed : 16 October 2003  
Group Art Unit : 2871  
Examiner : Unassigned

**U.S. PATENT DOCUMENTS**

<u>Examiner Initial</u>	<u>Patent Number</u>	<u>Patent Date</u>	<u>Name</u>	<u>Class/Subclass</u>	<u>Filing Date</u>
<u>Cl a</u>	6,278,505 6,392,725	08/21/01 05/21/02	OKADA et al. HARADA et al.	349/78 349/74	

**FOREIGN PATENT DOCUMENTS**

<u>Examiner Initial</u>	<u>Document Number</u>	<u>Date</u>	<u>Country</u>	<u>Class/Subclass</u>	<u>Translation Yes</u> <u>No</u>

**OTHER DOCUMENTS**  
(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initial

**EXAMINER**

Neyer

**DATE CONSIDERED**

8/23/05

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Please type a plus sign (+) inside this box

JUL 30 2006

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

Approved for use through 1992 by the United States Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**Under the Paperwork Reduction Act of 1995, no penalties are imposed to respond to a collection of information unless it contains a valid OMB control number.**

**Substitute for form 1449A/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Shee

of 1

**Complete if Known**

10/685 453

October 16 2003

**Posting Date**

**First Named Inv.**

## Group Art Unit

**Examiner Name**

SEARCHED INDEXED SERIALIZED FILED  
2007/16625

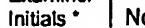
Sheet 1 of 1 Attorney Docket Number 2207/16635

Attorney Docket Number | 2207/16635

## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

#### **OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

OTHER PRIORITY - NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		John G. Spooner, "Intel Attempts Giant Boost in Handheld Memory", CNET news.com, Personal Tech, <a href="http://news.com.com/2100-1040-269834.html">http://news.com.com/2100-1040-269834.html</a> , July 11, 2001	

Examiner Signature		Date Considered	8/23/05
--------------------	-------------------------------------------------------------------------------------	-----------------	---------

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

10/16/03

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	Not assigned
Filing Date	
First Named Inventor	
Group Art Unit	Not assigned
Examiner Name	Not assigned

Attorney Docket Number 2207/16635

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
		Number	Kind Code <sup>2</sup> (if known)			

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
C		Wade et al, "Ovonyx Memory, Polymer Explored for Nonvolatile, Post-70-NM Generation", Intel Grooms Pair of Substitutes for Flash (Polymer Memory and Rewritable DVD-Like Approach Product Development, <u>Electrical Engineering Times</u> , July 16, 2001	
		Clarke, P, "Polymer Electronics Tapped for Memory, Logic" (Opticom ASA (Oslo, Norway) is developing a PC-card format polymer memory subsystem that should be completed before end 1999, <u>Electronic Engineering Times</u> , October 19, 1998	
		Stikeman, A., "Polymer Memory", <u>Technology Review</u> , Vol. 105, No. 7, September 2002	
		Stikeman, A., "Polymer Memory: The Plastic Path to Better Data Storage", <u>Technology Review</u> , Vol. 105, No. 7, September 2002	
		Sikora, A., "Developments in RAMs (random access memories): FeRAMS and MRAMS: Part 2", <u>Elektronik</u> , Vol. 51, No. 6 (Germany), March 19, 2002 (abstract)	
		Yamaguchi et al, "Light Scattering and Reflection Properties in Polymer Dispersed Liquid Crystal Cells with Memory Effects", <u>IEICE Transactions on electronics</u> , Vol. E78-C, No. 1 (Japan), January 1995 (abstract)	
		El-Kareh et al, "Field-Shielded Trench Fill", IBM Technical Disclosure Bulletin, Vol. 27, No. 8, January 1985 (abstract)	
		Jannson et al, "Optical Memory Based on the Ellipsometric Principle", 15th conference of the International Commission for Optics", Garmisch-Partenkirchen, Germany, August 5, 1990 (abstract)	
		Mayer, J., "Flash Memory Defends Its Crown" -- Pledging better performance, a pack of nonvolatile memory technologies is trying to unseat flash from its throne, but in this competitive market, cost is still king", <u>EBN</u> , No. 1338, pg. 29, 2002	
		Nagaraj, N., "Unfolding Space, Memory", <u>Business Line</u> , February 6, 2002	
C		"Polymers News-Variable Resistivity Material for Memories", <u>Electronic Materials Technology News</u> , Vol. 3, No. 12, November 1989	

Examiner Signature

Date Considered

8/23/05

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete If Known</b>		
				Application Number	Not assigned	
				Filing Date		
				First Named Inventor		
				Group Art Unit	Not assigned	
				Examiner Name	Not assigned	
				Attorney Docket Number	2207/16635	
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
		Number	Kind Code <sup>2</sup> (if known)			
<b>OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS</b>						
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T <sup>2</sup>
<i>Ch</i>		Wade, W., "Intel Details Post-Flash Technology Plan", <u>EE Times</u> , July 11, 2001, <a href="http://www.eetimes.com">www.eetimes.com</a> (11/27/02)				
<i>Ch</i>		Lai, S., "Intel's Investigation of Next-Generation Memory Technologies for Portable Devices", Intel Corporation, TMG, California Technology and Manufacturing, July 2001				
<i>Ch</i>		Avdeals.com, 28 pages of promotional materials				
Examiner Signature	<i>Hoan Nguyen</i>		Date Considered	6/11/05		